

TITANIUM OXIDE-IRON OXIDE MULTIPLE SOL, COSMETIC COMPOUNDED WITH THE SOL AND PRODUCTION THEREOF

Patent Number: JP2178219
Publication date: 1990-07-11
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Requested Patent: 特 許 第 JP2178219
Application Number: JP19880335246 19881228
Priority Number(s):
IPC Classification: A61K7/42 ; A61K7/00 ; A61K7/02 ; C01G49/06
EC Classification:
Equivalents: JP2577465B2

Abstract

PURPOSE: To provide a cosmetic having excellent ultraviolet-shielding effect and containing titanium oxide-iron oxide multiple sol having excellent dispersibility in dispersion medium, long-term stability and light-resistance.

CONSTITUTION: The objective titanium oxide-iron oxide multiple sol has an $\text{Fe}_2\text{O}_3/\text{TiO}_2$ weight ratio of 0.05-50 (preferably 0.1-20), is extremely stable over a wide pH range (pH 3-12) and contains uniformly dispersed fine particles having particle diameter of 4-100nm. Since the sol contains iron oxide, it exhibits excellent shielding effect even to ultraviolet radiation having wavelength of 320-400nm (especially 340-380nm) compared with titanium oxide sol having the same concentration. The multiple sol can be produced by adding hydrogen peroxide to a dispersion of hydrated titanium oxide and hydrated iron oxide to dissolve the hydrated titanium oxide and hydrated iron oxide and heating the obtained solution.

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